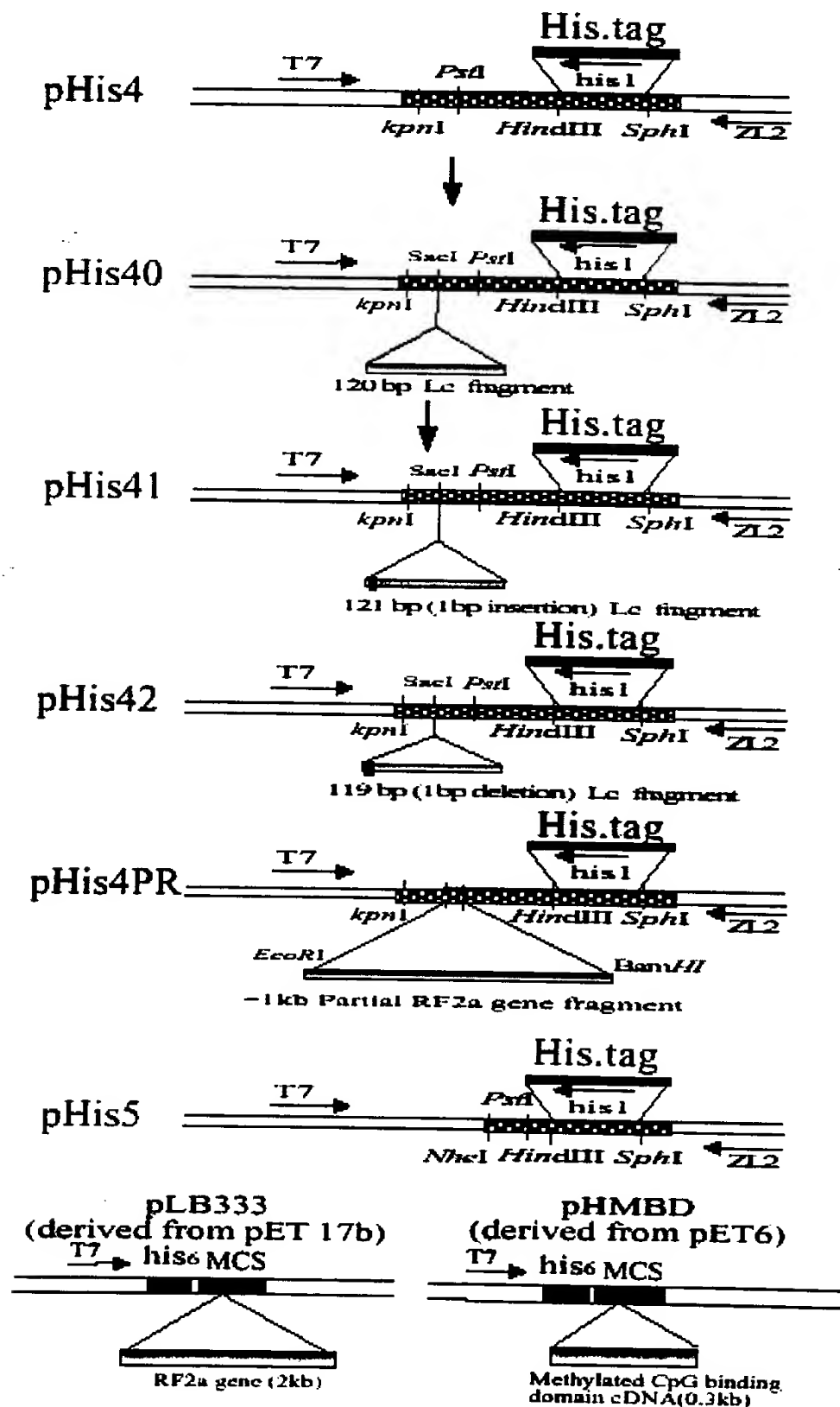


FIG. 1



The constructs made for 3-frame His.tag test
FIG. 2

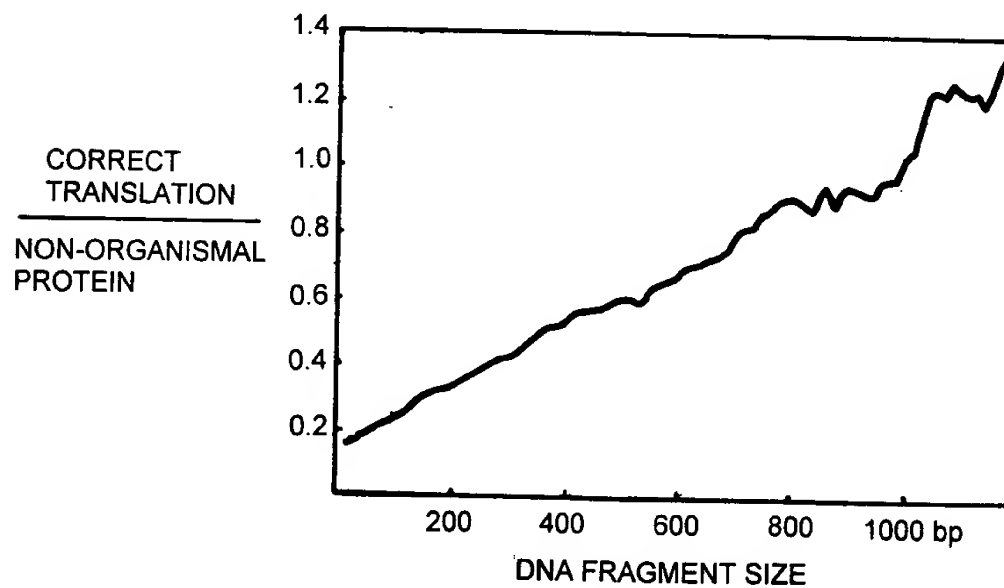


FIG. 3

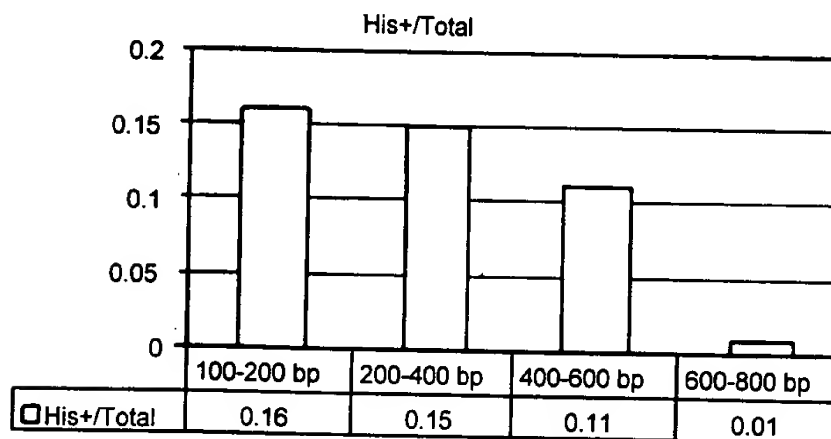


FIG. 4

T7 promoter

TAATACGACTCACTATAGGGAGACCACAACGGTTTCCCTCTAGAAATAATT

TGTTTAACTTTAAGAAGGAGATATACATATGGCATGGCATGGCCA

Ribosome binding site

Triple-ATGs

FIG. 5A

MCS

Triple ATGs MscI BamHI PstI 3-frame His-tag

1 TATACATATGGCATGGCATGGCCACTGCAGGATCCACCACCATCATCATCACGCATCACC 60

a 1 ATATGTATACCGTACCGTACCGGTGACGTCCTAGGTGCTGGTAGTAGTAGTGCGGTAGTGG

b 2 Y T Y G M A W P L Q D P P P S S S R I T -

c 3 I H M A W H G H C R I H H H H H A S P -

3 Y I W H G M A T A G S T T I I I T H H H -

SphI

61 ACCACCACCATAGGCCATCATCATCACCATCACACTAGCTGAGTAAGCATGCGACGTC 118

a 1 TGGTGGTGGTATCCGGTAGTAGTAGTGGTAGTGTGATCCACTCATTTCGTACGCTGCAG

b 2 T T T I G H H H H H H T S * V S M R R -

c 3 P P P * A I I I T I T L A E * A C D V -

3 H H H R P S S S P S H * L S K H A T

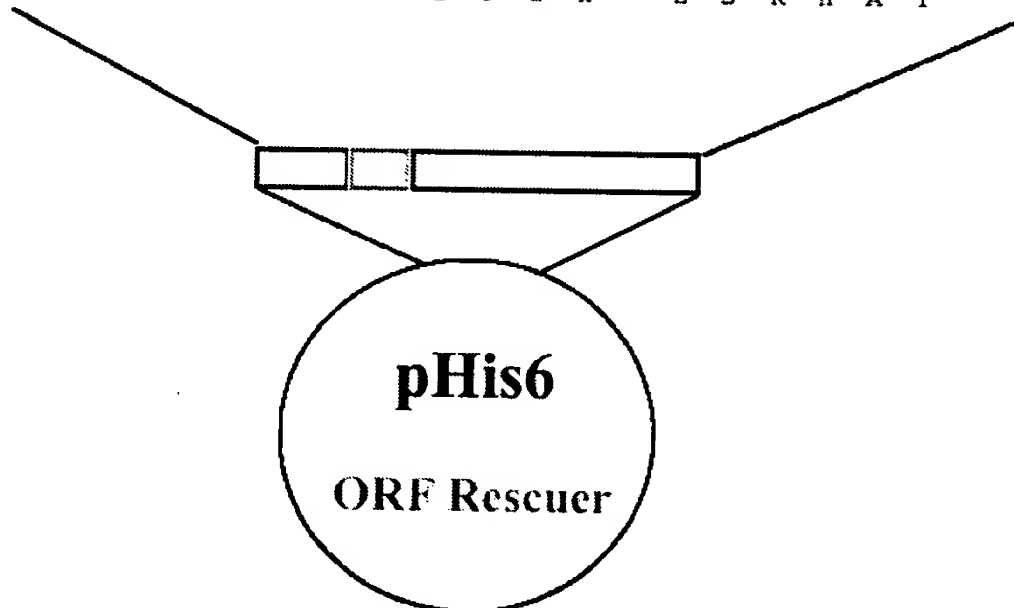
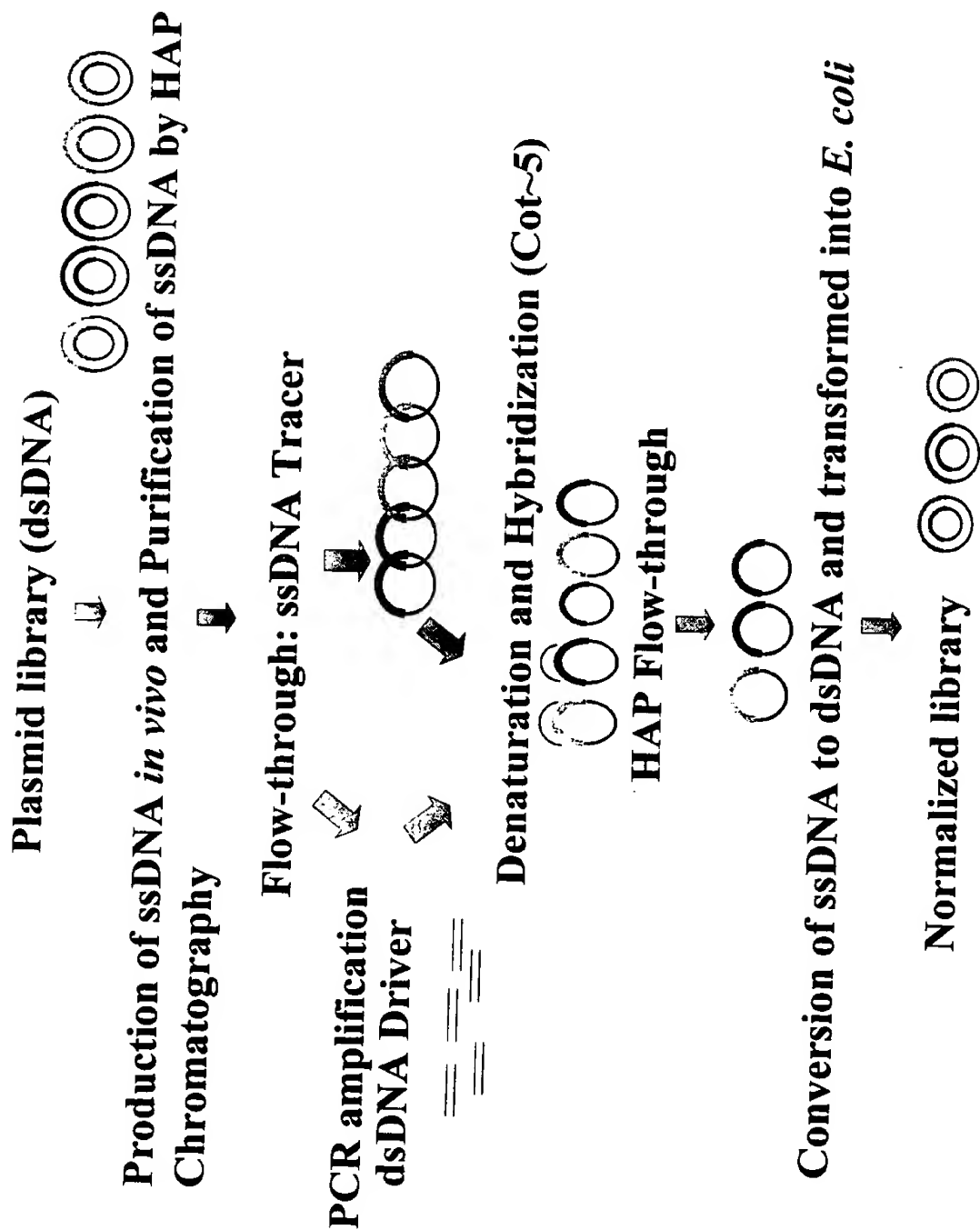





FIG. 5B



(Method of Marcelo Bento Soares, Genome Research 6: 791-806, 1996)

FIG. 6

BLAST analyses of ORF Rescue Fragments

 Gene hits
 Repetitive sequences
 Novel ORFs

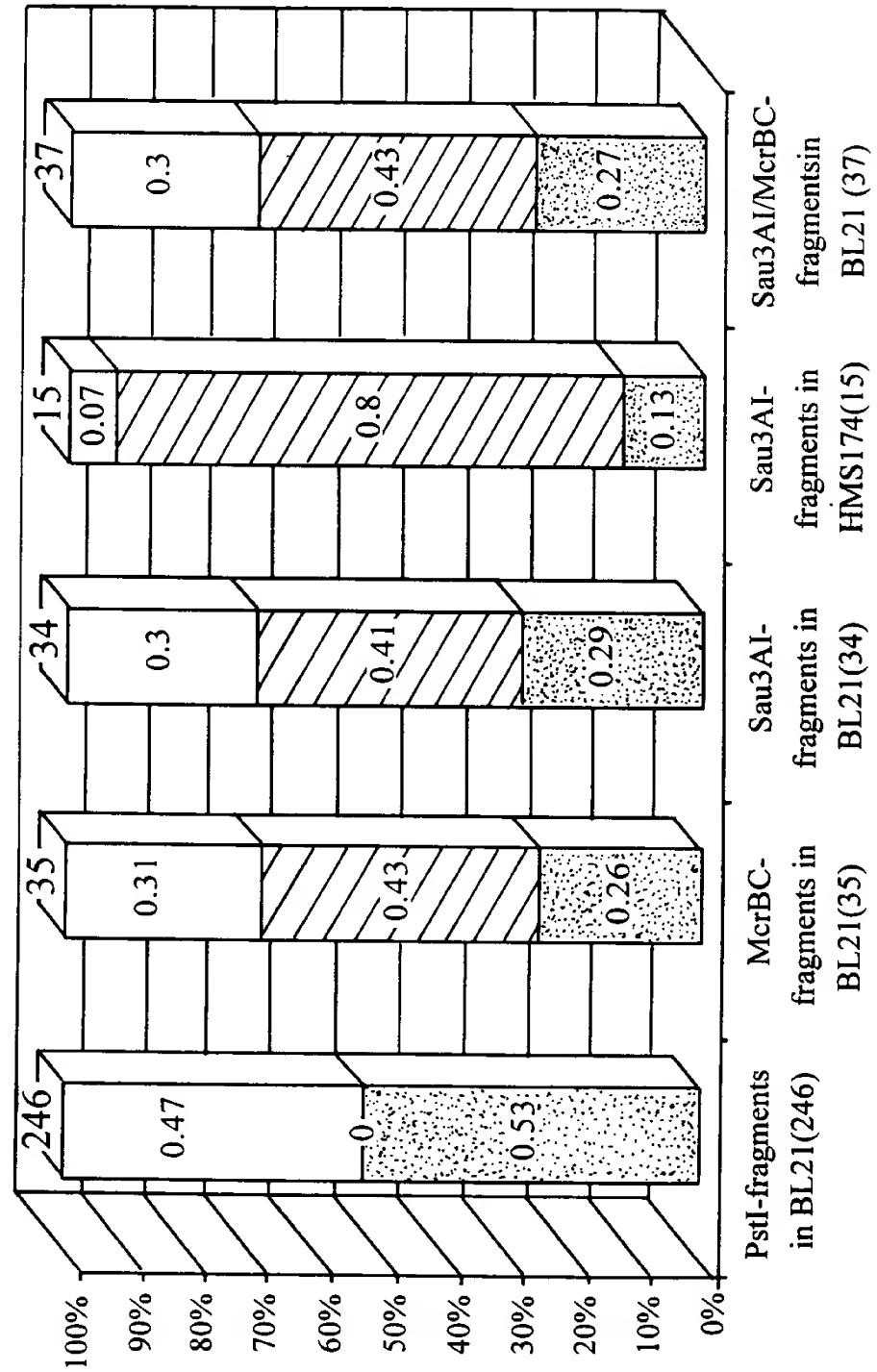


FIG. 7